

ABSTRACT OF THE DISCLOSURE

The variable valve timing controller controls the valve timing of the intake valve. The variable valve timing controller has a shaft, the stator fixed on the engine and generating the magnetic field around the shaft and rotational phase converter converting the torque applied to the shaft. When the valve timing is in the most delayed timing, the engine can be started. The rotational phase of this timing is called the feasible phase. When the stator stops generating the magnetic field, the load torque arise on the shaft.

10 The rotational phase converter varies the rotational phase into the feasible phase with receiving the load torque from the shaft.